

FIG. 1

1 6 11 16 21 26 31 36 41 46

SEQ ID NO: 2 1-50 SEKSEEINEKDLRKKSELQGTALGNLKIYIYYNSKAITSSSEKSADQFLTN

51-100 TLLFKGFFTGHPWYNDLLVDLIGSTAATSEYEGSSVDLYGAYYGQCAGGT

101-150 PNKTACMYGGVTLHDNNRLTEKKVPINLWIDGKQTTVPIDKVKTSKKEV

151-200 TVQELDLQARHYLHGKFGLYNSDSFGGKVQORGLIVFHSSEGSTVSYDLFD

201-233 AQQYPTLLRIYRDNTTISSTSLISLYLYTT

FIG. 2

SEQ ID NO:3 SEAE18: SEKSEINEKDLRKSELQGTALGNLKQIYYN---EKAITENKESDDQF  
 SEQ ID NO:4 SEA : SEKSEINEKDLRKSELQGTALGNLKQIYYN---EKAITENKESHDDQF  
 SEQ ID NO:5 SED : ALHKSELSSTALNNMKHSYADA---NPIIGANKSTGDQF  
 SEQ ID NO:6 SEH : EDLHKSELTDIALANAYGQJNHPFIKENIKSDEISGEKDI

SEAE18: LENTLIFKGFTHGFWYNDLLVLDGSKDATNKYKGGKVDLYGAYYGQA  
 SEA : LOHTILFKGFTHGFWYNDLLVDFDSKDIVDKYKGGKVDLYGAYYGQA  
 SED : LENTLIFYKAF-----LLINFSAEMAQHFKSKNVDVYAIRYAAAC  
 SEH : TERNQDSC-----NDLRVKFATADLAQKEFNKNKVDIYGASFYKCE

SEAE18: GGTPNKTACMYGGVTLHDNNRLTEKKVPINLWIDGKQTVPIDKVKTSK  
 SEA : GGTPNKTACMYGGVTLHDNNRLTEKKVPINLWIDGKQTVPIDKVKTSK  
 SED : -----RTACTYGGVTPHAGNALKARKKIPINLWIIIGVQKEVSLDKVQTDK  
 SEH : KISENISECLYGGTTLN-SEKLAQERVIGANVWVDGIQKETE-LIRTNK

SEAE18: KEVTVQELDQARHYLHGKFGLYNSDSFGKVQRGVLIVFHSSEGSTVSYD  
 SEA : KNVTVQELDQARRYLQEKYLNLYNSDVFDGKVQRGVLIVFHTSTEPSVNYD  
 SED : KNVTVQELDQARRYLQKDLKLYN-----AIQRGKLEFDSAAASKVSYD  
 SEH : KNVTVQELDIKIRKIILSDKYKIYY---KQSEISKGLIEFDMKTPRDYSFD

SEAE18: LFDAQGYPTLLRIYRNKNTINSEN-LHIALYLYTT  
 SEA : LFDAQGYSNLTLRIYRNKNTINSEN-HIDIYLYTS  
 SED : LFDVAGDFPEKQLRIYSNKTLSLSTEH-LHIDIYLYEA  
 SEH : LYDLKGENDVEIDKIYEDNKTLSDDLSLHIDVNLTYKKKV

FIG. 3

SEQ ID NO: 2 SEA/E-120  
 SEQ ID NO: 3 SEA/E-18  
 SEQ ID NO: 7 SEE  
 SEQ ID NO: 4 SEA

A  
 SEKSEINEKDLRKSELOQTALGNLKQIYYYNKSAITSEKSADQFILTLLFKGFTG 60  
 SEKSEINEKDLRKSELOQTALGNLKQIYYNEKAITENKESDDQFLENTLLFKGFTG 60  
 SEKSEINEKDLRKSELOQTALGNLKQIYYNEKAITENKESDDQFLENTLLFKGFTG 60  
 SEKSEINEKDLRKSELOQTALGNLKQIYYNEKAKTENKESDQFLQHTILFKGFTD 60  
 \*\*\*\*\* \*\*.\*:\*\*\*\*\*. \*\* \*.:\* \* \* \* \* \*:\*\*\*\*\*.

SEA/E-120  
 SEA/E-18  
 SEE  
 SEA

C  
 HPWYNDLLVGLGSTATSEYEGSSVDLYGAYYGVCAGGTPNKTACMYGGVTLHDNNRLT 120  
 HPWYNDLLVGLGSKDATNKYGRKKVDLYGAYYGVCAGGTPNKTACMYGGVTLHDNNRLT 120  
 HPWYNDLLVGLGSKDATNKYGRKKVDLYGAYYGVCAGGTPNKTACMYGGVTLHDNNRLT 120  
 HSWYNDLLVDFDSKDIDVKYGRKKVDLYGAYYGVCAGGTPNKTACMYGGVTLHDNNRLT 120  
 \*.\*:\*\*\*\*\*. \*\* \*.:\* \* \* \* \* \*\*\*\*\*

SEA/E-120  
 SEA/E-18  
 SEE  
 SEA

EKKVPINLWIDGQTTVPIDVKYTSKKEVTVOELDLQARHYLHGKFGLYNSDSFGKVQ 180  
 EKKVPINLWIDGQTTVPIDVKYTSKKEVTVOELDLQARHYLHGKFGLYNSDSFGKVQ 180  
 EKKVPINLWIDGQTTVPIDVKYTSKKEVTVOELDLQARHYLHGKFGLYNSDSFGKVQ 180  
 EKKVPINLWIDGQNTVPLETVTKNKNVTVOELDLQARRYLOEKYNLNSDVFDEKVQ 180  
 \*\*\*\*\*:\*\*\*\*.\*\*\*:\*\*\*:\*\*\*\*\*:\*\*\*:\*.\*\*\*\*\* \*.\*.\*

SEA/E-120  
 SEA/E-18  
 SEE  
 SEA

D  
 RGLIVFHSSEGSTVSVDLFDAGQYPTLLRIYRDNNTTISSTLSLSILYLT 233  
 RGLIVFHSSEGSTVSVDLFDAGQYPTLLRIYRDNKTINSENHLIALYLT 233  
 RGLIVFHSSEGSTVSVDLFDAGQYPTLLRIYRDNKTINSENHLIDLTYT 233  
 RGLIVFHTSTEPVNYDLFCAQGYSNLTLRIYRDNKTINSENHIDIYLT 233  
 \*\*\*\*\*:\*.:.\*\*\*\*\*:\*\*\*\*\*:\*\*\*. \*.:\* \* \* \* \* :

FIG. 4

0900755.070501

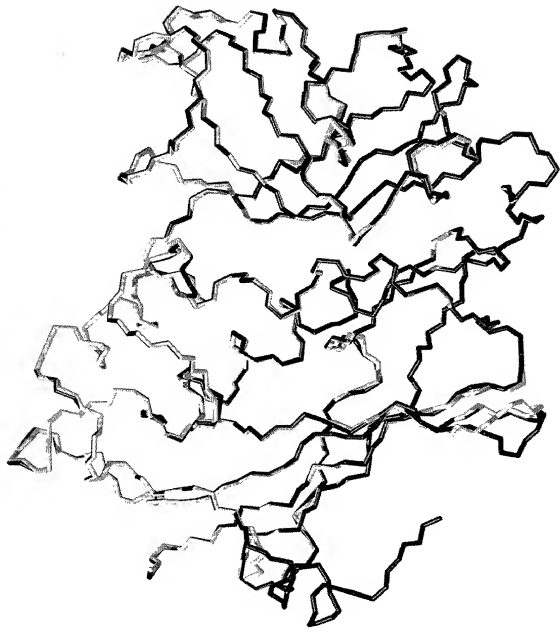


FIG. 5

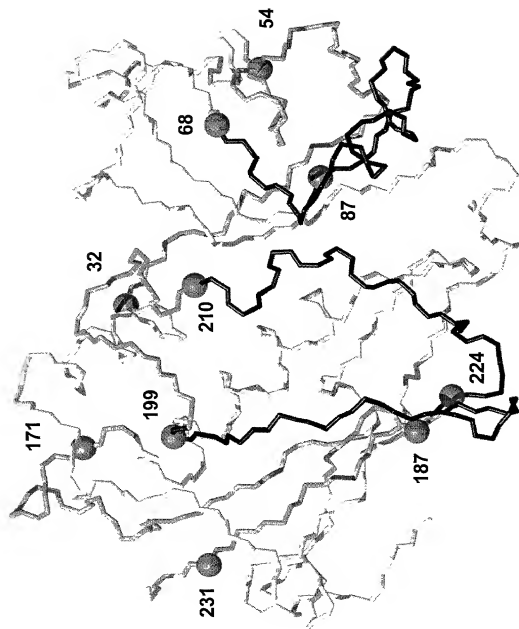


FIG. 6

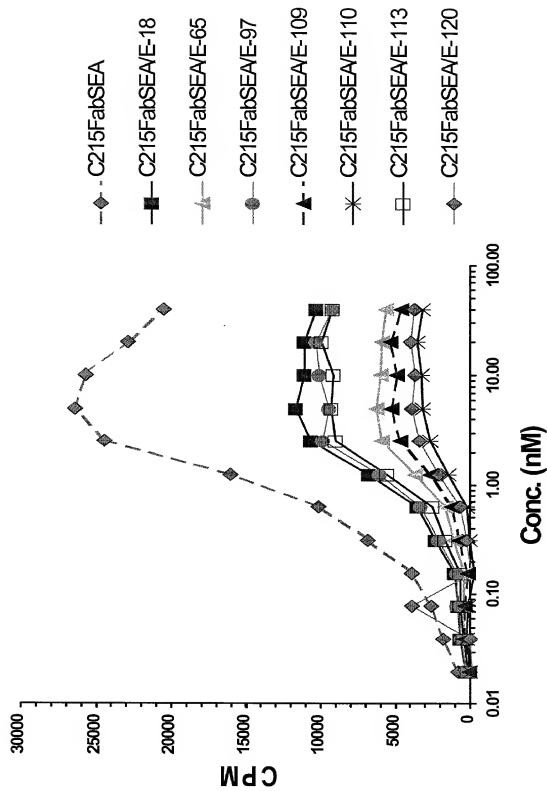


FIG. 7

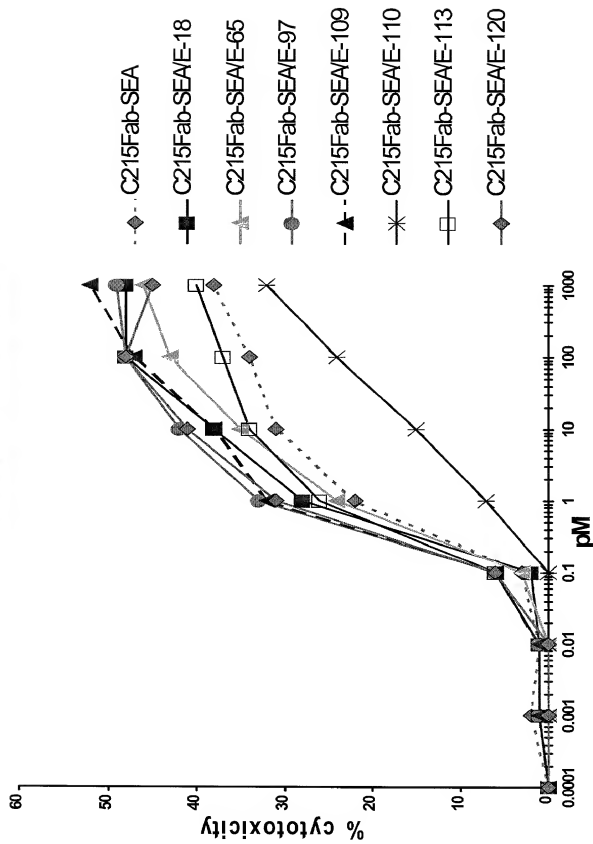


FIG. 8A



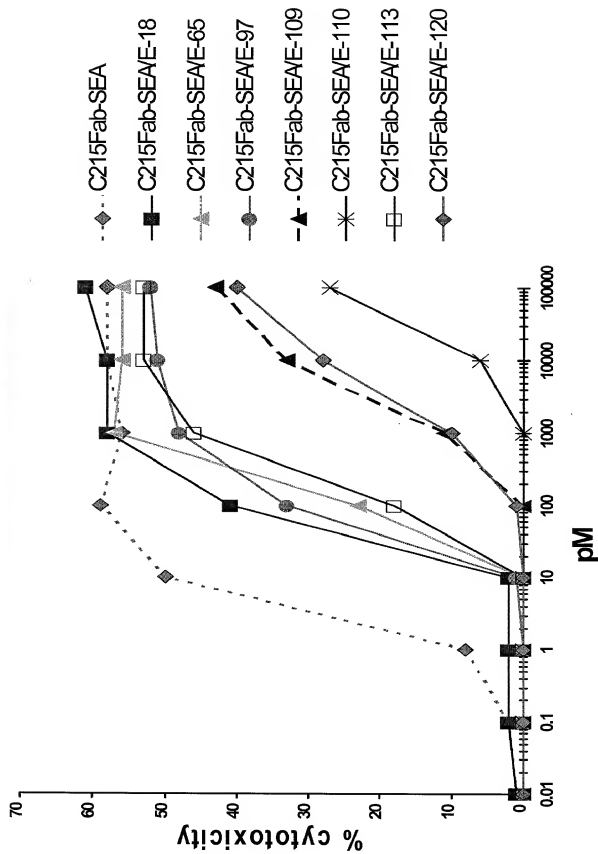


FIG. 8B



FIG. 9

**5T4 Variable Heavy chain**

|                     |         |   |
|---------------------|---------|---|
| <b>SEQ ID NO: 1</b> | 1-50    | EVQLQ QSGPD LVRPG ASVKI SCKAS GYSFT GYYMH WVKQS PGKGL EWIGR   |
|                     | 51-100  | INPNN GVTLY NQKFK DKATL TVDKS STTAY MELRS LTSED SAVVY CARST   |
|                     | 101-150 | MITNY VMDYW GQGT S AKTTP PSVIP LAPGS AAQTN SMVTL GCLVK        |
|                     | 151-200 | GYFPE PVTVT WNSGS LSSGV HFFPA VLQSD LYTLS SSVTV PSSTW PSETV   |
|                     | 201-250 | TCNVA HPASS TKVDK KIVER DSGGP SEKSE EINEK DLRKK SELQG TALGN   |
|                     | 251-300 | LKQIY YNSK AITSS EKSAD QFLIN TLLEK GFTG HPWYN DLLVD LGSTA     |
|                     | 301-350 | ATSEY EGSSV DLYCA YGYQ CAGGT PNKTA CMYGG VTLHD NNRLT EEKVV    |
|                     | 351-400 | PINLW IDGKQ TTVPI DKVKT SKKEV TVQEL DLQAR HYLHG KGLY NSDSF    |
|                     | 401-450 | GQKVQ RGLIV FHSSE GSTVS YDLFD AQGY PDTLL RIYRD NTTIS STSLS    |
|                     | 451-500 | ISLYL YTTSI VMTQT PTSILL VSAGD RVITIT CKASQ SVSND VAWYQ QKPGQ |
|                     | 501-550 | SPKLL ISYTS SRVAG VPDRF SGSGY GHDFT LTISS VQAEV AAVYF CQDDY   |
|                     | 551-600 | NSPPT FGGGT KLEIK RADAA PTVSI FPPSS EOLTS GGASV VCFIN NPYEK   |
|                     | 601-650 | DINVK WKIDG SERQN GVINS WTDQD SKDST YSMSS TLTLT KDEYE RHNSY   |
|                     | 651-672 | TCEAT HKTST SPIVK SFNRN ES                                    |

**FIG. 10**